



Katie M. Brown
Counsel

Duke Energy
40 W. Broad Street
DSC 556
Greenville, SC 29601

O: 864-370-5296
F: 864-370-5027

Katie.Brown2@duke-energy.com

February 26, 2021

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Executive Director
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, SC 29210

Re: Duke Energy Progress, LLC- Monthly Fuel Report
Docket Number: 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of January 2021.

Sincerely,

Katie M. Brown

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Mr. Jeff Nelson, Office of Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Mr. Ryder Thompson, Office of Regulatory Staff

Schedule 1

**DUKE ENERGY PROGRESS
SUMMARY OF MONTHLY FUEL REPORT**

Line No.	Item	JANUARY 2021
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 135,106,341
	MWH sales:	
2	Total System Sales	6,138,044
3	Less intersystem sales	570,614
4	Total sales less intersystem sales	5,567,430
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.4267
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.2621
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	910,918
8	Oil	8,182
9	Natural Gas - Combustion Turbine	53,810
10	Natural Gas - Combined Cycle	2,071,983
11	Biogas	2,153
12	Total Fossil	3,047,046
13	Nuclear	2,731,791
14	Hydro - Conventional	88,241
15	Solar Distributed Generation	15,047
16	Total MWH generation	5,882,125

Note: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	JANUARY 2021
Fuel and Fuel-Related Costs:	
Steam Generation - Account 501	
0501110 coal consumed - steam	\$ 38,417,294
0501310 fuel oil consumed - steam	461,953
Total Steam Generation - Account 501	<u>38,879,247</u>
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	15,993,133
Other Generation - Account 547	
0547000 natural gas consumed - Combustion Turbine	9,567,807
0547000 natural gas capacity - Combustion Turbine	1,471,856
0547000 natural gas consumed - Combined Cycle	38,781,088
0547000 natural gas capacity - Combined Cycle	11,107,746
0547106 biogas consumed - Combined Cycle	104,288
0547200 fuel oil consumed	1,176,146
Total Other Generation - Account 547	<u>62,208,931</u>
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	25,517,861
Fuel and fuel-related component of DERP purchases	49,177
PURPA purchased power capacity	4,164,278
DERP purchased power capacity	12,200
Total Purchased Power and Net Interchange - Account 555	<u>29,743,516</u>
Less:	
Fuel and fuel-related costs recovered through intersystem sales	12,834,075
Solar Integration Charge	(19)
Miscellaneous Fees Collected	10,300
Total Fuel Credits - Accounts 447/456	<u>12,844,356</u>
Total Costs Included in Base Fuel Component	\$ 133,980,471
Environmental Costs	
0509030, 0509212, 0557451 emission allowance expense	\$ 1,851
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	1,306,305
Emission Allowance Gains	-
Less reagents expense recovered through intersystem sales - Account 447	131,501
Less emissions expense recovered through intersystem sales - Account 447	<u>50,785</u>
Total Costs Included in Environmental Component	1,125,870
Fuel and Fuel-related Costs excluding DERP incremental costs	<u>\$ 135,106,341</u>
DERP Incremental Costs	277,756
Total Fuel and Fuel-related Costs	<u>\$ 135,384,097</u>

Notes:

Detail amounts may not add to totals shown due to rounding.
DERP details are presented on Page 2.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	JANUARY 2021
DERP Avoided Costs (Total Capacity and Energy)	
Purchased Power Agreements	\$ 5,582
Shared Solar Program	425
Total DERP Avoided Costs	\$ 6,008
DERP Incremental Costs	
Purchased Power Agreements	822
DERP NEM Incentive	158,167
Solar Rebate Program - Amortization	50,089
Solar Rebate Program - Carrying Costs	39,751
Shared Solar Program	1,031
NEM Avoided Capacity Costs	357
NEM Meter Costs	10,919
General and Administrative Expenses	16,597
Interest on under-collection due to cap	24
Total DERP Incremental Costs	\$ 277,756

Notes:

Detail amounts may not add to totals shown due to rounding.
All amounts represent SC retail.

**DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA**

Schedule 3, Purchases
Page 1 of 2

JANUARY 2021

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	\$	\$	mWh	Fuel \$	Non-fuel \$
Broad River Energy, LLC	\$ 2,787,735	\$ 2,429,569	1,679	\$ 358,166	-
City of Fayetteville	1,063,760	1,062,750	263	1,010	-
DE Carolinas - Native Load Transfer	2,330,578	-	72,683	2,303,200	\$ 27,378
DE Carolinas - Native Load Transfer Benefit	239,802	-	-	239,802	-
Haywood EMC	28,000	28,000	-	-	-
NCEMC	4,892,516	4,540,115	7,594	352,401	-
PJM Interconnection, LLC	3,702	-	-	3,702	-
Southern Company Services	8,429,680	4,256,994	120,671	4,172,686	-
Energy Imbalance	8,029	-	299	7,234	795
Generation Imbalance	2,124	-	84	1,511	613
	\$ 19,785,926	\$ 12,317,428	203,273	\$ 7,439,712	\$ 28,786
Act 236 PURPA Purchases					
DERP Qualifying Facilities	\$ 62,403	-	1,509	\$ 62,403	-
Other Qualifying Facilities	10,333,441	-	186,582	10,333,441	-
Renewable Energy	11,908,986	-	178,819	11,908,986	-
CPRE - Purchased Power	-	-	-	-	-
	\$ 22,304,830	-	366,910	\$ 22,304,830	-
Total Purchased Power	\$ 42,090,756	\$ 12,317,428	570,183	\$ 29,744,542	\$ 28,786

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA**

Schedule 3, Sales
Page 2 of 2

JANUARY 2021

Sales	Total \$	Capacity \$	mWh	Non-capacity Fuel \$	Non-fuel \$
Market Based:					
NCEMC Purchase Power Agreement	\$ 837,778	\$ 652,500	5,808	\$ 160,738	\$ 24,540
PJM Interconnection, LLC	224,560	-	6,713	168,066	56,494
Other:					
DE Carolinas - Native Load Transfer	11,594,733	-	558,085	11,191,015	403,718
DE Carolinas - Native Load Transfer Benefit	1,496,490	-	-	1,496,490	-
Generation Imbalance	64	-	8	52	12
Total Intersystem Sales	\$ 14,153,625	\$ 652,500	570,614	\$ 13,016,361	\$ 484,764

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
JANUARY 2021

Schedule 4
Page 1 of 3

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					5,567,430,188
2	DERP Net Metered kWh generation	Input					2,267,752
3	Adjusted System kWh sales	L1 + L2					5,569,697,940
4	Actual S.C. Retail kWh sales	Input	226,920,281	24,190,985	287,814,086	5,958,262	544,883,614
5	DERP Net Metered kWh generation	Input	1,386,984	29,908	850,861		2,267,752
6	Adjusted S.C. Retail kWh sales	L4 + L5	228,307,265	24,220,893	288,664,947	5,958,262	547,151,366
7	Actual S.C. Demand units (kw)	L32 / 31b *100			603,750		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					\$117,175,214
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$51,305
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$117,226,519
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.105
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$4,805,228	\$509,782	\$6,075,587	\$125,405	\$11,516,002
13	Assign 100 % of Avoided Fuel Benefit of S.C. net metering	Input	(\$22,638)	(\$3,345)	(\$25,322)	\$0	(\$51,305)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$4,782,590	\$506,437	\$6,050,265	\$125,405	\$11,464,697
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	1.888	1.887	1.887	1.887	1.887
16	Billed base fuel - non-capacity revenue	L4 * L15 / 100	\$4,284,645	\$456,484	\$5,431,052	\$112,432	\$10,284,613
17	DERP NEM incentive - fuel component	Input	\$2,590	\$383	\$2,897	\$0	\$5,870
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$4,287,235	\$456,867	\$5,433,949	\$112,432	\$10,290,483
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L14 - L18	\$495,355	\$49,570	\$616,316	\$12,973	\$1,174,214
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	\$495,355	\$49,570	\$616,316	\$12,973	\$1,174,214
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.319	0.442			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			134		
23	Incurred S.C. base fuel - capacity expense	Input	\$723,087	\$106,831	\$808,803		\$1,638,721
24a	Billed base fuel - capacity rates by class (¢/kWh) - Note 2	Input	0.528	0.358			
24b	Billed base fuel - capacity rate (¢/kW)	Input			108		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 / 100	\$1,199,070	\$86,604	\$652,111	\$0	\$1,937,785
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L23 - L25	(\$475,983)	\$20,227	\$156,692	\$0	(\$299,064)
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	(\$475,983)	\$20,227	\$156,692	\$0	(\$299,064)
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.021	0.030			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			9		
30	Incurred S.C. environmental expense	Input	\$48,621	\$7,183	\$54,384		\$110,188
31a	Billed environmental rates by class (¢/kWh) - Note 3	Input	0.021	0.012			
31b	Billed environmental rate (¢/kW)	Input			6		
32	Billed S.C. environmental revenue	L31a * L4 / 100	\$47,332	\$2,903	\$36,225		\$86,460
33	S.C. environmental (over)/under recovery [See footnote]	L30 - L32	\$1,289	\$4,280	\$18,159	\$0	\$23,728
34	Adjustment	Input					
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	\$1,289	\$4,280	\$18,159	\$0	\$23,728
Distributed Energy Resource Program component of recovery: avoided costs							
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.001	0.002			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0		
37	Incurred S.C. DERP avoided cost expense	Input	\$2,651	\$392	\$2,965		\$6,008
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh) - Note 4	Input	0.002	0.001			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			2		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 / 100	\$4,508	\$242	\$12,077		\$16,827
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L37 - L39	(\$1,857)	\$150	(\$9,112)	\$0	(\$10,819)
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	(\$1,857)	\$150	(\$9,112)	\$0	(\$10,819)
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	\$18,804	\$74,227	\$782,055	\$12,973	\$888,059

**Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
JANUARY 2021**

Schedule 4
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Cumulative (over) / under recovery - **BASE FUEL NON-CAPACITY**

Balance ending February 2020

March 2020 - actual

April 2020 - actual

May 2020 - actual

June 2020 - actual

July 2020 - actual

August 2020 - actual

September 2020 - actual

October 2020 - actual

November 2020 - actual

December 2020 - actual

January 2021 - actual

February 2021 - forecast

March 2021 - forecast

April 2021 - forecast

May 2021 - forecast

June 2021 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
\$8,184,894					
6,703,728	(\$500,048)	(\$60,906)	(\$900,533)	(\$19,679)	(\$1,481,166)
4,364,676	(697,174)	(89,196)	(1,518,585)	(34,097)	(2,339,052)
4,577,719	65,636	6,313	137,505	3,589	213,043
4,478,233	(30,783)	(6,228)	(61,363)	(1,112)	(99,486)
6,715,676	792,265	102,353	1,317,188	25,637	2,237,443
8,724,125	679,243	87,051	1,222,797	19,358	2,008,449
8,099,982	(235,888)	(34,162)	(346,669)	(7,424)	(624,143)
5,919,391	(611,844)	(94,900)	(1,444,195)	(29,652)	(2,180,591)
5,901,814	(8,035)	(2,590)	(6,889)	(63)	(17,577)
8,226,014	949,968	107,651	1,234,404	32,177	2,324,200
9,400,228	495,355	49,570	616,316	12,973	1,174,214
8,429,214	(404,947)	(37,399)	(516,261)	(12,407)	(971,014)
7,749,109	(259,930)	(27,777)	(383,187)	(9,211)	(680,105)
6,267,455	(475,231)	(66,562)	(917,804)	(22,057)	(1,481,654)
6,291,024	7,101	1,089	15,018	361	23,569
\$6,213,232	(26,296)	(3,404)	(46,970)	(1,122)	(\$77,792)

Cumulative (over) / under recovery - **BASE FUEL CAPACITY**

Balance ending February 2020

March 2020 - actual

April 2020 - actual

May 2020 - actual

June 2020 - actual

July 2020 - actual

August 2020 - actual

September 2020 - actual

October 2020 - actual

November 2020 - actual

December 2020 - actual

January 2021 - actual

February 2021 - forecast

March 2021 - forecast

April 2021 - forecast

May 2021 - forecast

June 2021 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
\$2,280,576					
2,080,723	(\$542,342)	(\$57,884)	\$400,373	\$0	(\$199,853)
2,576,867	198,269	22,469	275,406	0	496,144
3,180,854	263,866	26,727	313,394	0	603,987
3,332,298	(50,274)	(6,671)	208,389	0	151,444
3,922,473	144,961	17,783	427,431	0	590,175
4,544,592	227,860	33,406	360,853	0	622,119
4,825,152	107,838	15,343	157,379	0	280,560
5,414,755	393,328	35,047	161,228	0	589,603
5,772,003	276,764	25,524	54,960	0	357,248
5,704,739	(96,034)	10,781	17,989	0	(67,264)
5,405,675	(475,983)	20,227	156,692	0	(299,064)
4,956,900	(395,758)	7,192	(60,209)	0	(448,775)
4,873,935	(117,157)	16,965	17,227	0	(82,965)
5,065,594	174,702	19,850	(2,893)	0	191,659
5,396,198	259,823	21,057	49,724	0	330,604
\$5,408,932	(639)	9,799	3,574	0	\$12,734

Cumulative (over) / under recovery - **ENVIRONMENTAL**

Balance ending February 2020

March 2020 - actual

April 2020 - actual

May 2020 - actual

June 2020 - actual

July 2020 - actual

August 2020 - actual

September 2020 - actual

October 2020 - actual

November 2020 - actual

December 2020 - actual

January 2021 - actual

February 2021 - forecast

March 2021 - forecast

April 2021 - forecast

May 2021 - forecast

June 2021 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
(\$86,728)					
(234,402)	(\$97,924)	(\$9,094)	(\$40,656)	\$0	(\$147,674)
(399,194)	(93,739)	(9,066)	(61,987)	0	(164,792)
(553,737)	(87,410)	(8,677)	(58,456)	0	(154,543)
(605,586)	(41,045)	(4,402)	(6,402)	0	(51,849)
(555,502)	13,176	1,515	35,393	0	50,084
(382,799)	93,287	10,247	69,169	0	172,703
(371,786)	10,098	1,743	(828)	0	11,013
(414,291)	(13,748)	(1,090)	(27,667)	0	(42,505)
(462,895)	(16,745)	(1,338)	(30,501)	0	(48,604)
(436,892)	17,084	2,954	5,965	0	26,003
(413,164)	1,289	4,280	18,159	0	23,728
(133,263)	147,983	16,943	114,975	0	279,901
51,301	100,852	11,583	72,129	0	184,564
32,619	(543)	549	(18,688)	0	(18,682)
(18,391)	(17,610)	(1,426)	(31,974)	0	(51,010)
(\$8,247)	10,996	1,997	(2,849)	0	\$10,144

Cumulative (over) / under recovery - **DERP AVOIDED COSTS**

Balance ending February 2020

March 2020 - actual

April 2020 - actual

May 2020 - actual

June 2020 - actual

July 2020 - actual

August 2020 - actual

September 2020 - actual

October 2020 - actual

November 2020 - actual

December 2020 - actual

January 2021 - actual

February 2021 - forecast

March 2021 - forecast

April 2021 - forecast

May 2021 - forecast

June 2021 - forecast

Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
\$12,641					
11,876	(\$2,864)	(\$414)	\$2,513	\$0	(\$765)
12,921	(964)	(203)	2,212	0	1,045
16,781	603	(55)	3,312	0	3,860
32,685	6,591	490	8,823	0	15,904
32,855	1,192	62	(1,084)	0	170
30,362	3,988	534	(7,015)	0	(2,493)
22,557	1,299	236	(9,340)	0	(7,805)
16,369	2,282	278	(8,748)	0	(6,188)
14,029	4,291	480	(7,111)	0	(2,340)
2,953	(665)	87	(10,498)	0	(11,076)
(7,866)	(1,857)	150	(9,112)	0	(10,819)
(17,292)	345	290	(10,061)	0	(9,426)
(23,014)	2,575	442	(8,739)	0	(5,722)
(26,368)	4,709	554	(8,617)	0	(3,354)
(26,252)	6,197	672	(6,753)	0	116
(\$29,963)	3,747	490	(7,948)	0	(\$3,711)

**Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
JANUARY 2021**

Schedule 4
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Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	\$122,560	\$94,277	\$60,919	\$277,756
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	1.00	3.67	99.50	
46	Billed S.C. DERP incremental revenue	Input	\$133,169	\$114,233	\$25,419	\$272,821
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	(10,609)	(\$19,956)	\$35,500	\$4,935
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	(\$10,609)	(\$19,956)	\$35,500	\$4,935

Cumulative (over) / under recovery

	Cumulative	Total
Balance ending February 2020	\$45,020	
March 2020 - actual	22,698	(\$22,322)
April 2020 - actual	19,428	(3,270)
May 2020 - actual	14,695	(4,733)
June 2020 - actual	25,056	10,361
July 2020 - actual	76,859	51,803
August 2020 - actual	98,892	22,033
September 2020 - actual	147,012	48,120
October 2020 - actual	165,750	18,738
November 2020 - actual	153,788	(11,962)
December 2020 - actual	137,210	(16,578)
January 2021 - actual	142,145	4,935
February 2021 - forecast	169,192	27,046
March 2021 - forecast	201,100	31,908
April 2021 - forecast	236,862	35,762
May 2021 - forecast	273,360	36,498
June 2021 - forecast	\$307,824	\$34,464

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

- /1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of 1.901 and RECD 5% discount.
 /2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .532 and RECD 5% discount.
 /3 Total residential billed environmental rate is a composite rate reflecting the 7/1/20 approved residential rate of .021 and RECD 5% discount.
 /4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .002 and RECD 5% discount.

**Duke Energy Progress
Fuel and Fuel Related Cost Report
JANUARY 2021**

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Description	Mayo Steam	Roxboro Steam	Asheville CC/CT	Smith Energy Complex CC/CT	Sutton CC/CT	Lee CC	Blewett CT
Cost of Fuel Purchased (\$)							
Coal	\$7,316,608	\$25,243,557	-	-	-	-	-
Oil	248,671	209,945	-	-	-	-	-
Gas - CC	-	-	\$11,489,245	\$11,191,259	\$13,313,959	\$13,894,371	-
Gas - CT	-	-	288,282	10,517,125	154,863	-	-
Biogas	-	-	-	365,412	-	-	-
Total	\$7,565,279	\$25,453,502	\$11,777,527	\$22,073,796	\$13,468,822	\$13,894,371	-
Average Cost of Fuel Purchased (¢/MBTU)							
Coal	577.69	577.22	-	-	-	-	-
Oil	1,140.69	1,214.82	-	-	-	-	-
Gas - CC	-	-	444.60	348.77	446.21	404.83	-
Gas - CT	-	-	461.20	362.57	3,273.37	-	-
Biogas	-	-	-	2,918.63	-	-	-
Weighted Average	587.22	579.73	444.99	360.56	450.68	404.83	-
Cost of Fuel Burned (\$)							
Coal	\$12,889,526	\$25,527,768	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	401,880	60,073	\$13,501	\$379,345	\$65,883	-	-
Gas - CC	-	-	11,489,245	11,191,259	13,313,959	\$13,894,371	-
Gas - CT	-	-	288,282	10,517,125	154,863	-	-
Biogas	-	-	-	365,412	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	\$13,291,406	\$25,587,841	\$11,791,028	\$22,453,234	\$13,534,705	\$13,894,371	-
Average Cost of Fuel Burned (¢/MBTU)							
Coal	339.67	363.68	-	-	-	-	-
Oil - CC	-	-	-	1,550.00	-	-	-
Oil - Steam/CT	1,251.77	1,088.67	1,522.10	1,662.63	2,062.07	-	-
Gas - CC	-	-	444.60	348.77	446.21	404.83	-
Gas - CT	-	-	461.20	362.57	3,273.37	-	-
Biogas	-	-	-	2,918.63	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	347.32	364.25	445.35	365.40	452.40	404.83	-
Average Cost of Generation (¢/kWh)							
Coal	4.47	4.10	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	16.46	11.65	35.71	19.09	21.03	-	-
Gas - CC	-	-	2.84	1.44	3.20	2.94	-
Gas - CT	-	-	10.40	21.42	33.46	-	-
Biogas	-	-	-	16.98	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	4.57	4.11	2.90	2.70	3.24	2.94	-
Burned MBTU's							
Coal	3,794,746	7,019,356	-	-	-	-	-
Oil - CC	-	-	-	6	-	-	-
Oil - Steam/CT	32,105	5,518	887	22,816	3,195	-	-
Gas - CC	-	-	2,584,198	3,208,813	2,983,813	3,432,137	-
Gas - CT	-	-	62,507	2,900,677	4,731	-	-
Biogas	-	-	-	12,520	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	3,826,851	7,024,874	2,647,592	6,144,832	2,991,739	3,432,137	-
Net Generation (mWh)							
Coal	288,514	622,404	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	2,441	516	38	1,987	313	-	(55)
Gas - CC	-	-	404,276	778,007	416,525	473,175	-
Gas - CT	-	-	2,772	49,101	463	-	-
Biogas	-	-	-	2,153	-	-	-
Nuclear	-	-	-	-	-	-	-
Hydro (Total System)	-	-	-	-	-	-	-
Solar (Total System)	-	-	-	-	-	-	-
Total	290,955	622,920	407,086	831,248	417,301	473,175	(55)
Cost of Reagents Consumed (\$)							
Ammonia	\$55,288	\$81,427	-	\$21,475	-	-	-
Limestone	237,988	498,821	-	-	-	-	-
Re-emission Chemical	-	-	-	-	-	-	-
Sorbents	238,750	177,870	-	-	-	-	-
Urea	-	-	-	-	-	-	-
Total	\$532,026	\$758,118	-	\$21,475	-	-	-

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Duke Energy Progress
Fuel and Fuel Related Cost Report
JANUARY 2021

Schedule 5
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Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME JANUARY 2021
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	-	-	\$32,560,165	\$220,984,827
Oil	-	-	-	-	-	-	458,616	4,417,755
Gas - CC	-	-	-	-	-	-	49,888,834	521,602,148
Gas - CT	-	\$79,369	\$24	-	-	-	11,039,663	61,481,613
Biogas	-	-	-	-	-	-	365,412	4,774,337
Total	-	\$79,369	\$24	-	-	-	\$94,312,690	\$813,260,680
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	577.33	398.10
Oil	-	-	-	-	-	-	1,173.47	1,215.55
Gas - CC	-	-	-	-	-	-	408.62	365.43
Gas - CT	-	362.23	-	-	-	-	369.24	322.16
Biogas	-	-	-	-	-	-	2,918.63	2,806.60
Weighted Average	-	362.23	-	-	-	-	451.47	373.34
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	-	-	\$38,417,294	\$270,945,339
Oil - CC	-	-	-	-	-	-	93	228,818
Oil - Steam/CT	-	\$642,799	\$74,525	-	-	-	1,638,006	8,167,812
Gas - CC	-	-	-	-	-	-	49,888,834	521,602,148
Gas - CT	-	79,369	24	-	-	-	11,039,663	61,481,613
Biogas	-	-	-	-	-	-	365,412	4,774,337
Nuclear	-	-	-	\$8,317,475	\$4,218,085	\$3,457,573	15,993,133	172,415,522
Total	-	\$722,168	\$74,549	\$8,317,475	\$4,218,085	\$3,457,573	\$117,342,435	\$1,039,615,589
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	355.25	363.78
Oil - CC	-	-	-	-	-	-	1,550.00	1,535.07
Oil - Steam/CT	-	1,742.05	1,590.72	-	-	-	1,543.76	1,437.21
Gas - CC	-	-	-	-	-	-	408.62	365.43
Gas - CT	-	362.23	-	-	-	-	369.24	322.16
Biogas	-	-	-	-	-	-	2,918.63	2,806.60
Nuclear	-	-	-	56.42	56.40	58.28	56.81	56.35
Weighted Average	-	1,227.97	1,591.23	56.42	56.40	58.28	216.16	191.45
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	4.22	4.12
Oil - CC	-	-	-	-	-	-	-	14.66
Oil - Steam/CT	-	23.39	38.41	-	-	-	20.02	31.49
Gas - CC	-	-	-	-	-	-	2.41	2.60
Gas - CT	-	4.77	-	-	-	-	20.52	3.95
Biogas	-	-	-	-	-	-	16.98	20.24
Nuclear	-	-	-	0.59	0.57	0.59	0.59	0.59
Weighted Average	-	16.37	38.43	0.59	0.57	0.59	1.99	1.77
Burned MBTU's								
Coal	-	-	-	-	-	-	10,814,102	74,481,189
Oil - CC	-	-	-	-	-	-	6	14,906
Oil - Steam/CT	-	36,899	4,685	-	-	-	106,105	568,309
Gas - CC	-	-	-	-	-	-	12,208,961	142,736,390
Gas - CT	-	21,911	-	-	-	-	2,989,826	19,083,955
Biogas	-	-	-	-	-	-	12,520	170,111
Nuclear	-	-	-	14,743,020	7,478,762	5,932,458	28,154,240	305,954,424
Total	-	58,810	4,685	14,743,020	7,478,762	5,932,458	54,285,760	543,009,284
Net Generation (mWh)								
Coal	-	-	-	-	-	-	910,918	6,568,815
Oil - CC	-	-	-	-	-	-	-	1,561
Oil - Steam/CT	-	2,748	194	-	-	-	8,182	25,939
Gas - CC	-	-	-	-	-	-	2,071,983	20,064,384
Gas - CT	(189)	1,663	-	-	-	-	53,810	1,556,088
Biogas	-	-	-	-	-	-	2,153	23,584
Nuclear	-	-	-	1,404,732	741,049	586,010	2,731,791	29,393,849
Hydro (Total System)	-	-	-	-	-	-	88,241	882,459
Solar (Total System)	-	-	-	-	-	-	15,047	244,836
Total	(189)	4,411	194	1,404,732	741,049	586,010	5,882,125	58,761,515
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	-	-	\$158,190	\$1,547,540
Limestone	-	-	-	-	-	-	736,809	6,857,626
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	416,620	2,930,895
Urea	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	\$1,311,619	\$11,336,061

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
JANUARY 2021

Schedule 6
Page 1 of 2

Description	Mayo	Roxboro	Asheville	Smith Energy Complex	Sutton	Lee	Blewett
Coal Data:							
Beginning balance	518,153	900,724	-	-	-	-	-
Tons received during period	49,512	172,325	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons burned during period	151,802	282,801	-	-	-	-	-
Ending balance	415,863	790,248	-	-	-	-	-
MBTUs per ton burned	25.00	24.82	-	-	-	-	-
Cost of ending inventory (\$/ton)	84.91	90.26	-	-	-	-	-
Oil Data:							
Beginning balance	271,130	338,956	4,415,149	7,853,485	2,588,636	-	723,104
Gallons received during period	157,968	125,233	-	-	-	-	-
Miscellaneous use and adjustments (3,939)	(3,939)	(15,048)	-	-	-	-	-
Gallons burned during period	233,027	40,219	6,448	163,012	23,492	-	-
Ending balance	192,132	408,922	4,408,701	7,690,473	2,565,144	-	723,104
Cost of ending inventory (\$/gal)	1.72	1.49	2.09	2.33	2.80	-	2.37
Natural Gas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	2,558,862	5,899,794	2,886,143	3,313,353	-
MCF burned during period	-	-	2,558,862	5,899,794	2,886,143	3,313,353	-
Ending balance	-	-	-	-	-	-	-
Biogas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	-	12,091	-	-	-
MCF burned during period	-	-	-	12,091	-	-	-
Ending balance	-	-	-	-	-	-	-
Limestone/Lime Data:							
Beginning balance	25,408	101,678	-	-	-	21	-
Tons received during period	1,955	(1,925)	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons consumed during period	7,661	11,411	-	-	-	-	-
Ending balance	19,702	88,342	-	-	-	21	-
Cost of ending inventory (\$/ton)	31.39	43.04	-	-	-	185.23	-

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

[illegible]

Schedule 7

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL PURCHASED
JANUARY 2021**

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
MAYO	SPOT	24,839	\$ 1,463,033	\$ 58.90
	CONTRACT	24,673	1,626,243	65.91
	FIXED TRANSPORTATION/ADJUSTMENTS	-	4,227,332	-
	TOTAL	49,512	\$ 7,316,608	\$ 147.77
ROXBORO	SPOT	49,695	\$ 2,520,361	\$ 50.72
	CONTRACT	122,630	7,739,143	63.11
	FIXED TRANSPORTATION/ADJUSTMENTS	-	14,984,053	-
	TOTAL	172,325	\$ 25,243,557	\$ 146.49
ALL PLANTS	SPOT	74,534	\$ 3,983,394	\$ 53.44
	CONTRACT	147,303	9,365,386	63.58
	FIXED TRANSPORTATION/ADJUSTMENTS	-	19,211,385	-
	TOTAL	221,837	\$ 32,560,165	\$ 146.78

Schedule 8

DUKE ENERGY PROGRESS
ANALYSIS OF COAL QUALITY RECEIVED
JANUARY 2021

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
MAYO	6.39	9.19	12,790	2.11
ROXBORO	6.63	9.25	12,689	1.83

Schedule 9

**DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
JANUARY 2021**

	MAYO	ROXBORO	ROXBORO
VENDOR	Greensboro Tank Farm	Charlotte Tank Farm	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0
GALLONS RECEIVED	157,968	7,795	117,438
TOTAL DELIVERED COST	\$ 248,671	\$ 24,323	\$ 185,622
DELIVERED COST/GALLON	\$ 1.57	\$ 3.12	\$ 1.58
BTU/GALLON	138,000	138,000	138,000

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
February, 2020 - January, 2021
Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	6,928,821	938	84.09	82.55
Brunswick 2	8,068,476	932	98.56	98.30
Harris 1	8,273,159	964	97.70	95.69
Robinson 2	6,123,393	759	91.85	90.57

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
February, 2020 through January, 2021
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,054,648	225	53.36	72.49
Lee Energy Complex	1B	1,074,421	227	53.88	73.80
Lee Energy Complex	1C	1,154,757	228	57.66	77.09
Lee Energy Complex	ST1	2,264,039	379	68.01	88.67
Lee Energy Complex	Block Total	5,547,865	1,059	59.64	79.55
Smith Energy Complex	7	977,283	194	57.37	78.74
Smith Energy Complex	8	957,888	194	56.24	77.94
Smith Energy Complex	ST4	1,126,195	182	70.38	85.53
Smith Energy Complex	9	1,314,085	216	69.29	81.10
Smith Energy Complex	10	1,308,472	216	68.99	79.63
Smith Energy Complex	ST5	1,711,842	248	78.47	89.87
Smith Energy Complex	Block Total	7,395,765	1,250	67.35	82.38
Sutton Energy Complex	1A	1,235,472	224	62.79	78.12
Sutton Energy Complex	1B	1,241,614	224	63.10	78.31
Sutton Energy Complex	ST1	1,552,389	271	65.21	88.74
Sutton Energy Complex	Block Total	4,029,475	719	63.80	82.18
Asheville CC	ACC CT5	1,052,595	190	63.01	76.44
Asheville CC	ACC CT7	1,094,351	190	65.51	79.12
Asheville CC	ACC ST6	502,932	90	63.62	68.69
Asheville CC	ACC ST8	466,547	90	59.01	78.24
Asheville CC	Block Total	3,116,425	560	63.32	76.41

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
February, 2020 through January, 2021**

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	917,775	743	14.06	53.68
Roxboro 2	1,888,875	673	31.95	55.96
Roxboro 3	1,870,240	698	30.50	72.67
Roxboro 4	1,248,632	711	19.99	58.82

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
February, 2020 through January, 2021
Other Cycling Steam Units**

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Roxboro 1	655,278	380	19.63	69.01

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
February, 2020 through January, 2021
Combustion Turbine Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	165,361	347	93.04
Blewett CT	-355	68	96.32
Darlington CT	533	780	42.25
Smith Energy Complex CT	1,172,180	936	88.68
Sutton Fast Start CT	58,538	98	95.99
Wayne County CT	173,688	963	94.45
Weatherspoon CT	97	164	94.64

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data**

SCHEDULE 10
PAGE 6 of 6

**Twelve Month Summary
February, 2020 through January, 2021
Hydroelectric Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	42,167	27.0	22.27
Marshall	-231	4.0	28.60
Tillery	316,580	84.1	95.73
Walters	523,942	113.0	63.52

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.